



Illinois Department of Transportation

Memorandum

To: DIRECTORS, DEPUTY DIRECTORS, AND BUREAU CHIEFS
From: Dianna L. Taylor
Bureau Chief of Personnel Management
Subject: Technical Vacancy
Date: May 13, 2016

Attached are the Position Summary Sheet and Position Description for the vacant technical position listed below. Please post this vacancy announcement May 16, 2016 in the designated areas.

The deadline for applicants to submit their names for consideration is **4:30 p.m. on Friday, May 27, 2016**. Applicants will not be accepted after that time and date.

NOTE: A copy of each applicant's ACTIVE Illinois Professional Engineer License must accompany application for this position. Please be advised that if a high volume of applications are received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.

All applicants will receive a position description for the position they are applying for. If you have any questions, please contact Jennifer Sunderland or Denise Hamilton at 217/782-5594.

CE IV

Senior Bridge Inspection Engineer
Region 1/District 1/Maintenance
Highways
Elk Grove

Attachments
40872

Technical Applications (PM 1080) **must be received** by the Bureau of Personnel Management, Room 113, 2300 South Dirksen Parkway, Springfield, IL 62764 (Fax# 217/557-3134) or emailed to DOT.CO.BPM.EmploymentApplications@illinois.gov by **Friday, May 27, 2016**, 4:30 p.m. Please include address, daytime phone and position for which applying if not already listed on application. Applicants will be notified in writing to schedule interviews.

NOTE: A copy of each applicant's ACTIVE Illinois Professional Engineer License must accompany application for this position. Please be advised that if a high volume of applications are received, the applications may be screened to establish a smaller pool of applicants for interview. The screening will be based on the information contained in the application.



Illinois Department of Transportation

An Equal Opportunity Employer

Position Summary Sheet

Classification: Civil Engineer IV

Salary Range: \$5,800 - \$9,230

Position Title: Senior Bridge Inspection Engineer

Union Position: ☒ Yes ☐ No

Position Number: PW114-23-51-610-60-01

IPR#: 40872

Office/Central Bureau/District/Work Address:

Division of Highways/Region One/District One/Bureau of Maintenance/1101 Biesterfield Road, Elk Grove Village, IL

Description Of Duties:

This position is accountable for bridge inspections including NBIS, Element, Underwater, Special Feature, Fracture Critical and Scour evaluation; provides information necessary to complete bridge condition reports; and performs other related inspections for all the bridges in the assigned geographic area

Special Qualifications:

The following criteria is required:

- Current Illinois Professional Engineer license
- Valid driver's license
- Ability to climb and inspect various types of bridges

The following criteria is desired:

- Six years of experience in civil engineering, maintenance and/or construction including four years of supervisory responsibility of which three years should be in highway engineering
- Qualified as a "Bridge Inspection Team Leader" in Illinois
- Strong oral and written communication skills

Shift/Remarks:

6:30 am - 3:00 pm / Monday – Friday / (30 minute lunch)

****THIS POSITION REQUIRES 24-HOUR EMERGENCY CALL AVAILABILITY & THE USE OF LADDERS OR OTHER MECHANICAL EQUIPMENT TO ACCESS BRIDGES AT CONSIDERABLE HEIGHTS, IN CONFINED SPACES, OVER AND IN WATERWAYS, AND VARIOUS WEATHER CONDITIONS.****

**ILLINOIS DEPARTMENT OF TRANSPORTATION
POSITION DESCRIPTION**

DATE:	<i>October 2015</i>	POSITION:	<i>Senior Bridge Inspection Engineer</i>
APPROVED BY:	<i>Sarah Wilson</i>	OFFICE/DIVISION:	<i>Highways/District One/Schaumburg Bureau of Maintenance</i>
CODE:	<i>PW114-23-51-610-60-01</i>	REPORTS TO:	<i>Area Bridge Inspection Engineer</i>

Position Purpose

This position is accountable for bridge inspections including NBIS, Element, Underwater, Special Feature, Fracture Critical and Scour evaluation, as well as for providing information necessary to complete bridge condition reports and for performing other bridge related inspections for all the bridges in the assigned geographic area.

Dimensions

Number of Bridges	750
Annual Inspections Conducted	300
Dollar Value of Investment	\$5 - \$7 Billion

Nature and Scope

This position reports to the Area Bridge Inspection Engineer as do the two Area Bridge Inspection Engineers, two Senior Bridge Inspection Technicians and two Bridge Inspectors.

This position functions in an area where the accessibility to the structures requiring inspection is often difficult and dangerous and requires the use of specialty equipment and the latest technology to make certain that the information obtained leads to decisions about the bridge condition that ensures the continued safe and economical movement of traffic. The fact that these highways carry three to four billion vehicle miles of traffic annually complicates the problem of developing and implementing an effective program of bridge inspection.

Typical problems encountered by the incumbent include: the physical inspection of all the bridges in the geographic area to ensure that prescribed time frames are met for NBIS, Element, Fracture Critical, Underwater, Special Feature Inspection and mandated inspections. The greatest challenge to this position is to provide quality inspection information that contributes to preserving the structural integrity and operating effectiveness of all the bridges in the assigned geographic area and that critical information detected during inspections is quickly made available to the appropriate decision makers.

This position personally performs activities necessary to complete all required bridge inspections for the bridges in the assigned geographic area in conformance with prescribed deadlines and frequency. These inspections are complicated by several factors including: the extreme diversity of these bridges (from rural bridges to the world's busiest, from simple span to complex mechanical bridges); high traffic volumes, and severe resource and equipment constraints that require that bridge inspections carefully scheduled, expedited, and undertaken with extreme technical ingenuity, with a continuous emphasis on safety, accuracy, and timeliness. This position performs inspections in a safe manner, follows inspection schedules with quality results and ensures that critical information concerning bridge deficiency needs for maintenance or other factors are quickly analyzed and provided to those persons, agencies, or department units which need to know the critical information in order to make timely decisions and/or repairs. Position personally inspects the more complex/critical bridges in the assigned area. The incumbent must coordinate the use of personnel, equipment, and other resources to complete the required inspection schedule. The incumbent prepares bridge inspection reports for bridges in the assigned geographic area; ensuring accuracy and timeliness. The incumbent will be in charge, when designated, of the Section in the absence of the Area Bridge Engineer.

The incumbent works within the established engineering guidelines for bridge inspection, and in determining ratings/evaluations and in recommending remedial action, however, considerable independent judgement is required when reviewing or performing bridge inspections and inspection reports. The incumbent performs duties within the constraints imposed by budget, department policies, union agreements, NBIS standards and seasonal weather conditions.

Frequent contact is maintained with consultants, the public, federal, and other state and local agencies. Internally, the incumbent maintains frequent contact with the District's Bureaus of Programming, Design, Construction, Traffic, and the Central Bureaus of Bridges and Structures and Operations.

The effectiveness of this position is measured by the incumbent's ability to plan, develop and implement a plan to meet all bridge inspection deadlines.

Principal Accountabilities

1. Performs annual bridge inspection programs including NBSI, Element, Underwater, Fracture Critical, Special Feature Inspection and Scour evaluation for the assigned geographic area.
2. Schedules personnel and equipment to ensure inspection schedules are met.
3. Ensures effective expenditure of budgetary funds.
4. Ensures technical expertise necessary to perform bridge inspections. Team Leader certification is required before approving bridge inspections.
5. Trains, provides guidance, and mentors newer personnel within the bridge section on proper inspection techniques and safe methods of bridge inspections.
6. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
7. Performs other duties as required.